SEQUENCE LISTING

. 1	(1.)	CENTEDAT.	INFORMATION:
1	ш.) GENERAL	INFORMATION:

(i) APPLICANT: Patricia Gordon

Nick M. Carter

Steven T. Brentano Philip W. Hammond

(ii) TITLE OF INVENTION: NUCLEIC ACID PROBES

COMPLEMENTARY TO HUMAN
PAPILLOMAVIRUS NUCLEIC
ACID AND RELATED METHODS

AND KITS

(iii) NUMBER OF SEQUENCES: 128

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Lyon & Lyon

(B) STREET: 633 West Fifth Street

Suite 4700

(C) CITY: Los Angeles

(D) STATE: California

(E) COUNTRY: U.S.A.

(F) ZIP: 90071-2066

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

storage

(B) COMPUTER: IBM Compatible

(C) OPERATING SYSTEM: IBM P.C. DOS 6.1

(D) SOFTWARE: Word Perfect 6.1

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: 08/749,955

(B) FILING DATE: November 14, 1996

(C) CLASSIFICATION:

(vii) PRIOR APPLICATION DATA:

Prior applications total, including application described below:

1

(A) APPLICATION NUMBER:

60/006,854

(B) FILING DATE:

November 15, 1995

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Heber, Sheldon O.

(B) REGISTRATION NUMBER: 38,179

(C) REFERENCE/DOCKET NUMBER: 223/105

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (213) 489-1600

(B) TELEFAX: (213) 955-0440

(C) TELEX: 67-3510

- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 28 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GACATTATTG TTATAGTTTG TATGGAAC

28

	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic acid			
	(xi)	SEQU	ENCE DESCRIPTION:	SEQ ID NO:2:			
GTTC	CATAC	A AAC	TATAACA ATAATGTC			1	28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	3:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:	٠		
		(B) (C)		28 base pairs nucleic acid single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID NO:3:	-		
GACA) JUAUU	G UUA	UAGUUUG UAUGGAAC				28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	4:			
. *	(i)	SEQU	ENCE CHARACTERIST	ICS:			
			LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base pairs nucleic acid single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID NO:4:			
GUUC	CAUAC	A AAC	UAUAACA AUAAUGUC				28

(2) INFORMATION FOR SEQ ID NO:2:

	(i)	SEQU	ENCE CHARACTERIST	ICS:				
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base nucleic single linear	_			e nga a l
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:5:	·		•
GAAC	AGCAA'	T ACA	ACAAACC GTTGTGTG			,		28
(2)	INFO	R MAT I	ON FOR SEQ ID NO:	6:			÷	
	(i)	SEQU	ENCE CHARACTERIST	ICS:				
		(B)	TYPE: STRANDEDNESS:	28 base nucleic single linear				
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:6:			
CACA	CAACG	G TTT	GTTGTAT TGCTGTTC					28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	7:				
	(i)	SEQU	ENCE CHARACTÉRIST	ICS:				
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base nucleic single linear	_			
				•				

(2) INFORMATION FOR SEQ ID NO:5:

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:7:	1
GAACA	AGCAAI	J ACA	ACAAACC GUUGUGUG			28
(2)	INFOR	TAMS	ON FOR SEQ ID NO:	8:	(
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)			-	,
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:8:	
CACAC	CAACG	טטט	GUUGUAU UGCUGUUC		•	28
	٠		e e e e e e e e e e e e e e e e e e e			
(2)	INFO	RMATI	ON FOR SEQ ID NO:	9:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)		27 base nucleic single linear	_	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:9:	
GACG"	rgagg'	r gta	TTAACTG TCAAAAG		•	27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	10:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
· ·		(A) (B) (C)	LENGTH: TYPE: STRANDEDNESS:	27 base nucleic single		

	(xi)	SEQUENCE DI	ESCRIPTION:	SEQ ID	NO:10:	
CTTT	rgacac	TTAATACACC	TCACGTC			27
		,			·	
(2)	INFOR	MATION FOR	SEQ ID NO:1	.1:		
	(i)	SEQUENCE CH	ARACTERISTI	CS:	V	
		(A) LENGTH (B) TYPE: (C) STRANDO (D) TOPOLOG	EDNESS:	27 base nucleic single linear	-	
	(xi)	SEQUENCE D	ESCRIPTION:	SEQ ID	NO:11:	
GACG	JGAGGU	GUAUUAACUG	UCAAAAG		·	27
(2)	INFOR	MATION FOR	SEQ ID NO:1	12:		
	(i)	SEQUENCE CH	ARACTERIST	CS:		
		(A) LENGTH (B) TYPE: (C) STRAND (D) TOPOLOG	EDNESS:	27 base nucleic single linear		
	(xi)	SEQUENCE D	ESCRIPTION:	SEQ ID	NO:12:	
CUUUT	JGACAG	UUAAUACACC	UCACGUC			27
(2)	INFOR	MATION FOR	SEQ ID NO:	13:		
	(i)	SEQUENCE CH	ARACTERIST	CS:		
		(A) LENGTH (B) TYPE: (C) STRAND		27 base nucleic single	-	

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:13:			
CCAT	GCATG	A TTA	CAGCTGG GTTTCTC					27
		,						
(2)	INFO	RMATI	ON FOR SEQ ID NO:	14:				
	(i)	SEQU	ENCE CHARACTERIST	CICS:			•	
. •		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	_				
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:14:	ļ		
GAGA	AACCC	A GCT	GTAATCA TGCATGG			,		27
						`		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	15:				
	(i)	SEQU	ENCE CHARACTERIST	CICS:				
		(B) (C)		27 base nucleic single linear			I	
•	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:15:			
CCAU	GCAUG	A UUA	CAGCUGG GUUUCUC					27
(2)	INFO	RMATI	ON FOR SEQ ID NO:	16:				
-	(i)	SEQU	ENCE CHARACTERIST	CICS:				
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	27 base nucleic single linear	_			

	(xi)	SEQ	UENCE DESCRIPTION	1: SEQ ID	NO:16:		
GAGA	AACCC	A GCU	GUAAUCA UGCAUGG				27
(2)	INFO	RMATI	ON FOR SEQ ID NO	17:			
	(i)	SEQU	ENCE CHARACTERIST	TICS:			
		(B) (C)	TYPE: STRANDEDNESS:	26 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:17:		
TACG'	TGTTC	r tga	TGATCTC ACGTCG				26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	18:			
	(i)	SEQU	ENCE CHARACTERIST	TICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	26 base nucleic single linear	-		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:18:	1	
CGAC	GTGAG	A TCA	TCAAGAA CACGTA	-		,	26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	19:			
	(i)	SEQU	ENCE CHARACTERIST	TICS:			
	·	(A) (B) (C) (D)	STRANDEDNESS:	26 base nucleic single linear		·	

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:19:	
UACGU	JGUUCT	J UGA	UGAUCUC ACGUCG			26
(2)	INFO	ITAMS	ON FOR SEQ ID NO:	20:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:20:	
CGAC	GUGAG	A UCA	UCAAGAA CACGUA			26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	21:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:	•	
		(B) (C)	TYPE: STRANDEDNESS:	26 base nucleic single linear	_	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:21:	
GTGT	GTACTO	G CAA	GCAACAG TTACTG			26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	22:		
	(i)	SEQU	ENCE CHARACTERIST	ICS:		
		(A) (B) (C)	LENGTH: TYPE: STRANDEDNESS:	26 base nucleic single	_	

	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:22:	j	
CAGTA	ACTGI	TGCTTGCAGT ACACAC			. 1	26
(2)	INFOR	MATION FOR SEQ ID NO:2	3:			
2	(i)	SEQUENCE CHARACTERISTI	CS:			•
		(B) TYPE: (C) STRANDEDNESS:	26 base nucleic single linear	_		-
	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:23:		
GUGUG	UACUG	CAAGCAACAG UUACUG		ι		26
(2)	INFOR	MATION FOR SEQ ID NO:2	4:			
	(i)	SEQUENCE CHARACTERISTI	CS:			
		(C) STRANDEDNESS:	nucleic			
	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:24:		•
CAGUA	ACUGU	UGCUUGCAGU ACACAC				26
(2)	INFOR	MATION FOR SEQ ID NO:2	5:			
	(i)	SEQUENCE CHARACTERISTI	CS:			•
		(B) TYPE:	25 base nucleic single			

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:25:	
CTTTT	rgaca(G TTA	ATACACC TCACG			25
(2)	INFO	TAMS	ON FOR SEQ ID NO	:26:		
	(i)	SEQU	ENCE CHARACTERIS	rics:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	_		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:26:	
CGTG	AGGTG	r ATT	AACTGTC AAAAG			25
(2)	INFO	RMATI	ON FOR SEQ ID NO	:27:		
	(i)	SEQU	ENCE CHARACTERIS	TICS:		
		(B) (C)		25 base nucleic single linear	_	
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:27:	
cuuu	JGACA(G UUA	AUACACC UCACG			 25
(2)	INFO	RMATI	ON FOR SEQ ID NO	:28:		
	(i)	SEQU	ENCE CHARACTERIS	rics:		
		(A) (B) (C)	STRANDEDNESS:	25 base nucleic single	_	

	(xi)	SEQ	UENCE	DESCRIPTI	ON:	SEQ ID	NO:28:			
CGUG	AGGUG	UUA U	AACUGU	C AAAAG					·	25
	·				٠					
(2)	INFO	RMATI	ON FOR	SEQ ID N	NO:29	:				
	(i)	SEQU	ENCE C	HARACTERI	ISTIC	S:				
		(B) (C)			n s	2 base ucleic ingle inear	_	·		
	(xi)	SEQ	UENCE	DESCRIPTI	ION:	SEQ ID	NO:29:			
AAAG'	TCATA	T ACC	TCACGT	C GC						22
								•		
(2)	INFO	RMATI	ON FOR	SEQ ID N	NO:30	:				
	(i)	SEQU	ENCE C	HARACTERI	ISTIC	S:				·
		(B) (C)			n s	ucleic	pairs acid			
	(xi)	SEQ	UENCE	DESCRIPTI	ON:	SEQ ID	NO:30:			
GCGA	CGTGA	Ġ GTA	TATGAC	T TT					1	22
(2)	INFO	RMATI	ON FOR	SEQ ID N	10:31	:				
	(i)	SEQU	ENCE C	HARACTERI	STIC	S:				
٠		(A) (B) (C) (D)	STRAN	DEDNESS:	n	2 base ucleic ingle inear	_			

	(xi)	SEQ	UENCE DESCRIPTION	1: SEQ ID	NO:31:	
AAAG	UCAUA	U ACC	UCACGUC GC			22
(2)	INFO	RMATI	ON FOR SEQ ID NO	:32:		•-
	(i)	SEQU	ENCE CHARACTERIST	rics:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	single		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:32:	
GCGA	CGUGA	g gua	UAUGACU UU			22
(2)	INFO	RMATI	ON FOR SEQ ID NO	:33:		-
	(i)	SEQU	ENCE CHARACTERIS	rics:		
		(B) (C)	TYPE: STRANDEDNESS:	21 base nucleic single linear	_	٠
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:33:	٠
GAAA	CCCAG	C TGT	'AATCATG C	·	(21
(2)	INFO	RMATI	ON FOR SEQ ID NO	:34:		
	(i)	SEQU	ENCE CHARACTERIST	rics:		
		(A) (B) (C)		21 base nucleic single	_	

	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:34:		
GCAT	GATTA(C AGCTGGGTTT C		1	21
(2)	INFO	RMATION FOR SEQ ID	NO:35:		
	(i)	SEQUENCE CHARACTER	ISTICS:		
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:			
	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:35:		
GAAA	CCCAG	C UGUAAUCAUG C			21
(2)	INFO	RMATION FOR SEQ ID	NO:36:		
,	(i)	SEQUENCE CHARACTER	ISTICS:		
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	21 base pairs nucleic acid single linear		
	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:36:		
GCAU	GAUUA	C AGCUGGGUUU C			21
(2)	INFO	RMATION FOR SEQ ID	NO:37:		
	(i)	SEQUENCE CHARACTER	ISTICS:		
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	19 base pairs nucleic acid single linear	·	

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:37:		
GATC	ATCAA	G AACACGTAG		19
(2)	INFO	RMATION FOR SEQ ID NO:38:		
	(i)	SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear		
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:38:		
CTAC	GTGTT(C TTGATGATC		19
(2)	TMEO	DMARTON FOR GEO ID NO 20	1	
(2)	INFO	RMATION FOR SEQ ID NO:39:		
	(i)	SEQUENCE CHARACTERISTICS:		
	,	 (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 		`
* *:	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:39:	•	
GAUC	AUCAA	G AACACGUAG		19
(2)	INFO	RMATION FOR SEQ ID NO:40:	· .	
-	(i)	SEQUENCE CHARACTERISTICS:		
		(A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single		

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	10:
CUAC	GUGUU	C UUGAUGAUC	19
		`	
(2)	INFO	RMATION FOR SEQ ID NO:41:	
	(i)	SEQUENCE CHARACTERISTICS:	
	•	(A) LENGTH: 37 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
•	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	11:
GGAA	CTGAA	C ACTTCACTGC AAGACATAGA AATAACC	37
•			
(2)	INFO	RMATION FOR SEQ ID NO:42:	
	(i)	SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 37 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	12:
GGTT?	ATTTC'	I ATGTCTTGCA GTGAAGTGTT CAGTTCC	37
(2)	INFO	RMATION FOR SEQ ID NO:43:	I
	(i)	SEQUENCE CHARACTERISTICS:	
,		(A) LENGTH: 37 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

•	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:43:	
GGAA	CUGAA	C ACU	UCACUGC AAGACAUAG	SA AAUAACO	2	37
(2)	INFO	RMATI	ON FOR SEQ ID NO:	44:	,	
	(i)	SEQU	ENCE CHARACTERIST	TICS:		
		(B) (C)	TYPE: STRANDEDNESS:	37 base nucleic single linear		
	(xi)	SEQ	UENCE DESCRIPTION	1: SEQ ID	NO:44:	
GGUU	AUUUC	J AUG	UCUUGCA GUGAAGUGI	JU CAGUUC	C	37
	•		·			
(2)	INFO	RMATI	ON FOR SEQ ID NO:	:45:		
	(i)	SEQU	ENCE CHARACTERIST	rics:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	31 base nucleic single linear	-	
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:45:	
GGAA	AAACT.	A ACT	AACACTG GGTTATACA	AA T		31
(2)	INFO	RMATI	ON FOR SEQ ID NO	:46:		
	(i)	SEQU	ENCE CHARACTERIST	rics:		•
		(A) (B) (C)		31 base nucleic single	-	

	(xi)	SEQ	UENCE DESCRIPTION	1: SEQ ID	NO:46:		
ATTG:	rataa(C CCA	GTGTTAG TTAGTTTT	rc c			31
(2)	INFO	RMATI	ON FOR SEQ ID NO	:47:	·	1	
٠	(i)	SEQU	ENCE CHARACTERIST	rics:		ı	
·		(C)		31 base nucleic single linear	-		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:47:		
GGAA	AAACU.	a acu	AACACUG GGUUAUAC	CA U			31
(2)	INFO	RMATI	ON FOR SEQ ID NO	:48:		•	•
	(i)	(i) SEQUENCE CHARACTERISTICS:					
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	31 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:48:		
AUUG	UAUAA	C CCA	GUGUUAG UUAGUUUU	JC C			31
(2)	INFO	RMATI	ON FOR SEQ ID NO	:49:			
	(i)	SEQU	JENCE CHARACTERIS'	FICS:		•	
		(C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	28 base nucleic single linear	_		

	(xi)	SEÇ	UENCE DESCRIPTION	: SEQ ID NO:	:49:		
CATA	GAAAT	A ACC	TGTGTAT ATTGCAAG				28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	50:			
	(i)	SEQU	ENCE CHARACTERIST	CICS:			
		(B)	TYPE: STRANDEDNESS:	28 base pai nucleic aci single linear			
	(xi)	SEC	UENCE DESCRIPTION	: SEQ ID NO	:50:		
CTTG	CAATA	T ACA	CAGGTTA TTTCTATG				28
			•				
(2)	INFO	RMATI	ON FOR SEQ ID NO:	51:		ł	
	(i)	SEQU	JENCE CHARACTERIST	CICS:		1	
		(B) (C)		_			
	(xi)	SEÇ	QUENCE DESCRIPTION	: SEQ ID NO	:51:		
CAUA	GAAAU	A ACC	CUGUGUAU AUUGCAAG				28
(2)	INFO	RMATI	ON FOR SEQ ID NO:	52:			
	(i)	SEQU	JENCE CHARACTERIST	CICS:			
		(A) (B) (C) (D)	STRANDEDNESS:	28 base pai nucleic act single linear			٠

	(xi)	SEQ	UENCE	DESCRIPTION	N: SEQ ID	NO:52:		
CUUG	CAAUAU	J ACA	CAGGUU	JA UUUCUAUG		•		28
(2)	INFO	TAMS	ON FOR	R SEQ ID NO	:53:			
	(i)	SEQU	ENCE (CHARACTERIS	rics:			
		(B) (C)	TYPE:			_		
	(xi)	SEQ	UENCE	DESCRIPTION	N: SEQ ID	NO:53:		
GACA:	TTATT	C AGA	CTCTG	rg tatggag				27
(2)	INFO	RMATI	ON FOR	R SEQ ID NO	:54:			
	(i)	SEQU	ENCE (CHARACTERIS	rics:			
		(B) (C)	TYPE STRAI		_	_		
	(xi)	SEQ	UENCE	DESCRIPTION	N: SEQ ID	NO:54:		
CTCC	ATACA	C AGA	GTCTG	AA TAATGTC				27
(2)	INFO	RMATI	ON FO	R SEQ ID NO	:55:			
	(i)	SEQU	ENCE (CHARACTERIS'	TICS:			
		(A) (B) (C) (D)			27 base nucleic single linear	_		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:55:	
GACA	UUAUU	C AGA	CUCUGUG UAUGGAG			27
(2)	INFO	TAMS	ON FOR SEQ ID NO:	56:		
	(i)	SEQUI	ENCE CHARACTERIST	ICS:		
		(B) (C)		_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:56:	
CUCC	AUACAG	C AGA	GUCUGAA UAAUGUC			27
(2)	INFOR	TAMS	ON FOR SEQ ID NO:	57:		
	(i)	SEQUI	ENCE CHARACTERIST	ics:		
		(B)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	_	_	
	(xi)	SEQ	JENCE DESCRIPTION	: SEQ ID	NO:57:	
GCAA	GACAGT	TATTO	GGAACTT ACAGAG			26
(2)	INFOR)ITAMS	ON FOR SEQ ID NO:	58 :	·	
	(i)	SEQUI	ENCE CHARACTERIST	ICS:		
		(A) (B) (C)		26 base nucleic single	-	

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:58:		
CTCTC	GTAAGI	TCC	AATACTG TCTTGC				26
				•	•		
(2)	INFO	RMATI	ON FOR SEQ ID NO:	59:			
	(i)	SEQU	ENCE CHARACTERIST	CICS:			·
		(B) (C)				·.	
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:59:		
GCAA	GACAGI	UUA U	GGAACUU ACAGAG				26
						,	
(2)	INFO	RMATI	ON FOR SEQ ID NO:	60:			
	(i) SEQUENCE CHARACTERISTICS:						
•		(B), (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic	_		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:60:		
CUCTO	GUAAGT	n ncc	AAUACUG UCUUGC				26
(2)	INFO	RMATI	ON FOR SEQ ID NO:	61:			
	(i)	SEQU	ENCE CHARACTERIST	'ICS:			
		(A) (B) (C) (D)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	26 base nucleic single linear	_		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:61:	
CCTGT	rgtat <i>i</i>	A TTGCAAGACA GTATTG			26
(2)	INFO	RMATION FOR SEQ ID NO:	62:		
	(i)	SEQUENCE CHARACTERIST	ICS:		
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	_	_	
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:62:	
CAATA	ACTGT	C TTGCAATATA CACAGG			26
(2)	INFOR	RMATION FOR SEQ ID NO:	63:		
	(i)	SEQUENCE CHARACTERIST	ICS:		
	,	(B) TYPE:(C) STRANDEDNESS:	26 base nucleic single linear	_	
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:63:	
CCUG	JGUAUZ	A UUGCAAGACA GUAUUG	_		26
(2)	INFOR	RMATION FOR SEQ ID NO:	54:		
	(i)	SEQUENCE CHARACTERIST	ICS:		
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:	26 base nucleic single	-	

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:64:		
CAAU	ACUGU	C UUG	CAAUAUA CACAGG				26
			·				
(2)	INFO	RMATI	ON FOR SEQ ID NO	: 65 :			
	(i)	SEQU	ENCE CHARACTERIST	rics:			
		(B) (C)		26 base nucleic single linear	-		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:65:	,	
GAAC'	TTACA	G AGG	TATTTGA ATTTGC				26
(2)	INFO	RMATI	ON FOR SEQ ID NO	:66:			
	(i)	SEQU	ENCE CHARACTERIS	rics:	•		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:		-		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:66:		
GCAA	ATTCA	A ATA	CCTCTGT AAGTTC				26
(2)	INFO	RMATI	ON FOR SEQ ID NO	:67:			
	(i)	SEQU	ENCE CHARACTERIS	rics:			
		(A) (B) (C)	STRANDEDNESS:	26 base nucleic single	_	. 1	

	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:67:	
GAAC	UUACA	G AGGUAUUUGA AUUUGC		26
•			· .	
(2)	INFO	RMATION FOR SEQ ID	NO:68:	
	(i)	SEQUENCE CHARACTER	ISTICS:	
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	_ ,	
	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:68:	
GCAA	AUUCA	A AUACCUCUGU AAGUUC		26
(2)	INFO	RMATION FOR SEQ ID	NO:69:	
	(i)	SEQUENCE CHARACTER	ISTICS:	
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:		
	(xi)	SEQUENCE DESCRIPT	ION: SEQ ID NO:69:	
CAAC	CGAGC	A CGACAGGAAC GAC		23
(2)	INFO	RMATION FOR SEQ ID	NO:70:	
	(i)	SEQUENCE CHARACTER	ISTICS:	
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	23 base pairs nucleic acid single linear	

	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID	NO:70:			
GTCGT	TCCTG	TCGTGCTCGG TTG			23		
(2)	INFOR	RMATION FOR SEQ ID NO):71:				
	(i)	SEQUENCE CHARACTERIS	STICS:				
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	23 base processingle linear				
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID	NO:71:			
CAAC	CGAGCA	A CGACAGGAAC GAC			23		
(2)	INFOR	RMATION FOR SEQ ID NO):72:				
	INFORMATION FOR SEQ ID NO:72: (i) SEQUENCE CHARACTERISTICS:						
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	_				
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID	NO:72:			
GUCGI	JUCCUC	UCGUGCUCGG UUG	·		23		
(2)	INFOR	RMATION FOR SEQ ID NO):73:				
	(i)	SEQUENCE CHARACTERIS	STICS:				
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	23 base particles of single				

	(xi)	SEÇ	QUENCE DESCRIPTIO	N: SEQ ID	NO:73:		
CCAA	.CGACG	C AGA	GAAACAC AAG		•		23
(2)	INFO	RMATI	ON FOR SEQ ID NO	:74:			·
	(i)	SEQU	ENCE CHARACTERIS	TICS:			-
		(B) (C)	TYPE: STRANDEDNESS:	nucleic	_	`	
	(xi)	SEQ	UENCE DESCRIPTIO	N: SEQ ID	NO:74:		
CTTG	TGTTT	C TCI	GCGTCGT TGG				23
(2)	INFO	RMATI	ON FOR SEQ ID NO	:75:			
	(i)	INFORMATION FOR SEQ ID NO:75: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs					
		(B) (C)	TYPE: STRANDEDNESS:	nucleic	_		
	(xi)	SEQ	UENCE DESCRIPTIO	N: SEQ ID	NO:75:		
CCAA	CGACG	C AGA	GAAACAC AAG				23
(2)	INFO	RMATI	ON FOR SEQ ID NO	:76:			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74: TGTTTC TCTGCGTCGT TGG INFORMATION FOR SEQ ID NO:75: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:						
		(B) (C)	TYPE: STRANDEDNESS:	nucleic single	_		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:76:		
CUUGU	JGUUUC	UCUGCGUCGU UGG			23	
(2)	INFOR	RMATION FOR SEQ ID NO:	77 :			
	(i)	SEQUENCE CHARACTERIST	ICS:			
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	nucleic single			
•	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:77:		
CTTA	CAGAGO	G TGCCTGCGGT GC			22	
(2)	INFORMATION FOR SEQ ID NO:78:					
	(i)	SEQUENCE CHARACTERIST	ICS:			
			22 base nucleic single linear	_		
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:78:		
GCAC	CGCAG	G CACCTCTGTA AG			22	
(2)	INFO	RMATION FOR SEQ ID NO:	79:			
	(i)	SEQUENCE CHARACTERIST	ICS:			
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	22 base nucleic single	-		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:79:	
США	CAGAG	G UGCCUGCGGU GC		•	22
			Í		22
(2)	INFO	RMATION FOR SEQ ID NO:	30:		
	(i)	SEQUENCE CHARACTERIST	ICS:		
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	_		
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:80:	
GCAC	CGCAG	G CACCUCUGUA AG			22
(2)	TNEO	RMATION FOR SEQ ID NO:8	21.		
(2)	INFO.	O.ON DI QAE NOT NOTIANDI	,		
	(i)	SEQUENCE CHARACTERIST	[CS:		•
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	_		
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:81:	
GAAC	TACA(G AGGTGCCTGC GG			22
(2)	INFO	RMATION FOR SEQ ID NO:8	32:		
	(i)	SEQUENCE CHARACTERIST	cs:		
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	22 base nucleic single	-	

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:82:		
CCGC	AGGCA	CCTC	TGTAAGT TC				22
•							
(2)	INFO	ITAMS	ON FOR SEQ ID NO	:83:			
	(i)	SEQU	ENCE CHARACTERIST	rics:			
		(B)	TYPE: STRANDEDNESS:	22 base nucleic single linear		ı	
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:83:		
GAACU	JUACA	a AGG	UGCCUGC GG				22
(2)	INFO	RMATIO	ON FOR SEQ ID NO	:84:			
	(i)	NFORMATION FOR SEQ ID NO:84:					
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic	_		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:84:	·	
CĆGC	AGGCA	C CUCI	UGUAAGU UC				22
(2)	INFO	RMATIO	ON FOR SEQ ID NO:	:85:	·		
	(i)	SEQUI	ENCE CHARACTERIST	TICS:			
		(A) (B) (C) (D)	· ·	21 base nucleic single linear	-		

	(xi)	SEQU	JENCE DESCRIPTION	SEQ ID	NO:85:		
CAGGA	CACAC	TGG(CTTTTGA C				21
(2)	INFOR	RMATIO	ON FOR SEQ ID NO:	36:			
	(i)	SEQUE	ENCE CHARACTERIST	ics:			
		(C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	21 base nucleic single linear	-		
	(xi)	SEQ	JENCE DESCRIPTION	: SEQ ID	NO:86:		
GTCA	AAAGCO	CACT	GTGTCCT G				21
			•				
(2)	(2) INFORMATION FOR SEQ ID NO:87:						
	(i) SEQUENCE CHARACTERISTICS:						
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	21 base nucleic single linear	-		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID	NO:87:	1	
CAGG	ACACAC	G UGG	CUUUUGA C			·	21
(2)	INFO	RMATIO	ON FOR SEQ ID NO:	88:			٠
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(A) (B) (C) (D)		21 base nucleic single linear			

	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:88:	
GUCAZ	AAAGC	C ACU	GUGUCCU G			21
(2)	INFO	RMATI	ON FOR SEQ ID NO	:89:		
	(i)	SEQU	ENCE CHARACTERIS	FICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	-	
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:89:	
GCTT	rttgt	C CAG	ATGTCTT TGC	•		23
,						
(2)	INFO	RMATI	ON FOR SEQ ID NO	:90:		
	(i)	SEQU	ENCE CHARACTERIS	TICS:		
		(B) (C)		23 base nucleic single linear		
	(xi)	SEQ	UENCE DESCRIPTION	N: SEQ ID	NO:90:	
GCAA	AGACA	T CTG	GACAAAA AGC			23
(2)	INFO	RMATI	ON FOR SEQ ID NO	:91:		
	(i)	SEQU	ENCE CHARACTERIS	TICS:		
		(C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	23 base nucleic single linear		

	(xi)	SEÇ	QUENCE DESCRIPTION	N: SEQ ID	NO:91:	I			
GCUU	บบบเรบ	C CAG	SAUGUCUU UGC			1	23		
						·	•		
(2)	INFO	INFORMATION FOR SEQ ID NO:92:							
	(i)	SEQU	JENCE CHARACTERIS	TICS:	•				
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic	_	•	<i>, .</i>		
	(xi)	SEÇ	QUENCE DESCRIPTIO	N: SEQ ID	NO:92:		•		
GCAA	AGACA	U CUG	GGACAAAA AGC				23		
(-)						•			
(2)		INFORMATION FOR SEQ ID NO:93:							
	(i)	SEQU	JENCE CHARACTERIS	TICS:					
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	23 base nucleic single linear	_				
	(xi)	SEÇ	QUENCE DESCRIPTIO	N: SEQ ID	NO:93:				
GCAA	TGTAG	G TG1	FATCTCCA TGC				23		
(2)	INFO	RMATI	ON FOR SEQ ID NO	:94:					
	(i)	SEQUENCE CHARACTERISTICS:							
		(A) (B) (C) (D)	STRANDEDNESS:	23 base nucleic single linear	-				

	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:94:	
GCAT	GGAGA	T ACACCTACAC CGC		23
(2)	INFO	RMATION FOR SEQ ID NO	:95:	
	(i)	SEQUENCE CHARACTERIST	rics:	
	·		23 base pairs nucleic acid single linear	
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:95:	
GCAA	UGUAG	G UGUAUCUCCA UGC		23
(2)	INFO	RMATION FOR SEQ ID NO	:96:	
	(i)	SEQUENCE CHARACTERIST	FICS:	
		(A) LENGTH:(B) TYPE:(C) STRANDEDNESS:(D) TOPOLOGY:	23 base pairs nucleic acid single linear	
	(xi)	SEQUENCE DESCRIPTION	N: SEQ ID NO:96:	
GCAU	GGAGA	U ACACCUACAC CGC		23
(2)	INFO	RMATION FOR SEQ ID NO:	:97:	
	(i)	SEQUENCE CHARACTERIST	rics:	
		<pre>(A) LENGTH: (B) TYPE: (C) STRANDEDNESS: (D) TOPOLOGY:</pre>	27 base pairs nucleic acid single	

	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:97:		
AATT'	raata(C GACI	CCACTAT AGGGAGA				27
(2)	INFO	RMATIC	ON FOR SEQ ID NO:	98:			
	(i)	SEQUE	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	pairs acid		
	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:98:		
TCTC	CCTAT	A GTGA	AGTCGTA TTAAATT				. 27
(2)	INFORMATION FOR SEQ ID NO:99:						
	(i)	SEQUE	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic single	acid	·	
	(xi)	SEQU	JENCE DESCRIPTION	: SEQ ID	NO:99:		
AAUU	UAAUA	C GACT	JCACUAU AGGGAGA				27
(2)	INFO	RMATIC	ON FOR SEQ ID NO:	100:			
	(i)	SEQUE	ENCE CHARACTERIST	ics:			
		(A) (B) (C)	TYPE:	27 base nucleic single			

	(xi)	SEQ	UENCE DESCRIPTION	1: SEQ ID NO:100:		
UCUC	CCUAU.	A GUG	AGUCGUA UUAAAUU		2	27
(2)	INFO	RMATI	ON FOR SEQ ID NO	101:		
	(i)	SEQU	JENCE CHARACTERIS	TICS:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic acid single		
	(xi)	SEÇ	QUENCE DESCRIPTION	N: SEQ ID NO:101:		
TCGT	TTTTC	A TTA	AGGTGTC TAAGTTTT	C TGCTGGATTC	4	40
(2)	INFO	RMATI	ON FOR SEQ ID NO	:102:		
	(i)	SEQU	JENCE CHARACTERIS	rics:		
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic acid single		
	(xi)	SEÇ	QUENCE DESCRIPTIO	N: SEQ ID NO:102:		
GAAT	'CCAGC	A GAA	AAAACTTA GACACCTT	AA TGAAAAACGA		40
(2)	INFO	RMATI	ON FOR SEQ ID NO	:103:		
	(i)	SEQU	JENCE CHARACTERIS	rics:		
		(A) (B) (C) (D)		40 base pairs nucleic acid single linear		

	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID N	NO:103:		
UCGU	JUUUC	A UUA	AGGUGUC UAAGUUUUU	C UGCUGGAU	JUC		40
(2)	INFO	RMATI	ON FOR SEQ ID NO:	104:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	nucleic a	•		
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID N	NO:104:		
GAAU	CCAGC	A GAA	AAACUUA GACACCUUA	A UGAAAAAC	CGA		40
		٠					
(2)	INFO	RMATI	ON FOR SEQ ID NO:	105:			
	(i)	NFORMATION FOR SEQ ID NO:105: i) SEQUENCE CHARACTERISTICS:					
		(B) (C)		23 base p nucleic a single linear			
	(xi)	SEQ	UENCE DESCRIPTION	: SEQ ID N	10:105:		
GCAAT	GTTG	C CTT	AGGTCCA TGC				23
(2)	INFO	RMATI	ON FOR SEQ ID NO:	106:			
	(i)	SEQU	ENCE CHARACTERIST	ICS:			
		(A) (B) (C) (D)	STRANDEDNESS:	23 base p nucleic a single linear			

	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:106:		
GCAT	GGACC'	r AAGG	GCAAC	AT TGC				23
(2)	INFO	RMATIC	ON FOI	R SEQ ID NO:	107:			
	(i)	(i) SEQUENCE CHARACTERISTICS:						
		(B) (C)	TYPE:	TH: : NDEDNESS: LOGY:	nucleic single			
	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:107:		
GCAA	JGUUG	C CUU	AGGUC	CA UGC	·			23
							ı	
(2)	TNFO	RMATTO	N FOE	R SEQ ID NO:	108.		1	
(2)								
	(i)	SEQUE	ENCE (CHARACTERIST:	ICS:			
		(B) (C)	TYPE:	NDEDNESS:	nucleic single	-		
	(xi)	SEQU	JENCE	DESCRIPTION	: SEQ ID	NO:108:		
GCAU	GGACCI	J AAGO	CAACA	AU UGC				23
(2)	INFO	RMATIC	ON FOR	R SEQ ID NO:	109:			
	(i)	SEQUE	ENCE (CHARACTERIST	ICS:			
	٠	(C)			22 base nucleic single linear	-		

	(xi)	SEQU	JENCE	DESCRIPT	'ION:	SEQ ID	NO:109:			
CGGT'	TTCTG(G CAC	CGCAG	GC AC						22
(2)	TATEO		OM EOI		N7O - 1	10 .				
(2)	INFO	RMATIC	JN FOI	R SEQ ID	NO:1	.10:				
	(i)	SEQUE	ENCE (CHARACTER	ISTI	CS:				
		(B) (C)	TYPE STRAI	TH: : NDEDNESS: LOGY:		nucleic single	pairs acid			
	(xi)	SEQ	UENCE	DESCRIPT	ION:	SEQ ID	NO:110:			
GTGC	CTGCG	G TGC	CAGAAI	AC CG						22
(2)	INFO	RMATIO	ON FOI	R SEQ ID	NO : 1	.11:			•	
	(i)	SEQUE	ENCE (CHARACTER	ISTI	cs:				
		(B) (C)				22 base nucleic single linear	_			
	(xi)	SEQ	UENCE	DESCRIPT	'ION:	SEQ ID	NO:111:			
CGGUI	UUCUG	G CAC	CGCAG	GC AC						22
(2)	INFO	RMATIO	ON FOI	R SEQ ID	NO:1	.12:		1		
	(i)	SEQUE	ENCE (CHARACTER	ISTI	CS:		1		
		(A) (B) (C) (D)	STRAI	: NDEDNESS :		22 base nucleic single linear	-		·	

	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:112:		
GUGCO	CUGCGG	UGCCAGAAAC CG			22	
(2)	INFOR	MATION FOR SEQ ID NO:1	13:			
	(i) SEQUENCE CHARACTERISTICS:					
		(B) TYPE:(C) STRANDEDNESS:	23 base nucleic single linear	-		
	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:113:		
GCAAT	TGTAGC	CGTATGTCCA TGC			23	
(2)	INFOR	MATION FOR SEQ ID NO:1	14:			
	(i) SEQUENCE CHARACTERISTICS:					
		(B) TYPE:(C) STRANDEDNESS:	23 base nucleic single linear	-		
	(xi)	SEQUENCE DESCRIPTION:	SEQ ID	NO:114:		
GCATO	GACAT	ACGGCTACAT TGC			23	
(2)	INFOR	MATION FOR SEQ ID NO:1	15:			
	(i)	SEQUENCE CHARACTERISTI	CS:			
		•	23 base nucleic single	_		

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:115:				
GCAAU	JGUAG(C CGUAUGUCCA UGC	23			
(0)						
(2)	INFO	RMATION FOR SEQ ID NO:116:				
	(i)	SEQUENCE CHARACTERISTICS:				
		(A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear				
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:116:				
GCAUC	GACA	U ACGGCUACAU UGC	23			
		- -				
(2)	INFO	RMATION FOR SEQ ID NO:117:				
	(i) SEQUENCE CHARACTERISTICS:					
		(A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear				
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:117:				
CACTI	CACTO	G CAAGACATAG AAATAACCTG TGTATATT	38			
(2)	INFO	RMATION FOR SEQ ID NO:118:				
	(i)	SEQUENCE CHARACTERISTICS:	٠			
		(A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear				

	(xi)	SEQ	UENCE D	ESCRIPTION	: SEQ ID	NO:118:		
AATA	TACAC	A GGT	TATTTCT	ATGTCTTGC	a gtgaag	I G		38
(2)	INFO	RMATI	ON FOR	SEQ ID NO:	119:			
*	(i)	SEQU	ENCE CH	ARACTERIST	ICS:			
		(B) (C)		EDNESS:	38 base nucleic single linear	-		
	(xi)	SEQ	UENCE D	ESCRIPTION	: SEQ ID	NO:119:		
CACU	UCACU	G CAA	GACAUAG	AAAUAACCU	G UGUAUA	ບັບ		38
(2)	INFO	RMATI	ON FOR	SEQ ID NO:	120:			
	<pre>INFORMATION FOR SEQ ID NO:120: (i) SEQUENCE CHARACTERISTICS:</pre>							
	·	(B) (C)	TYPE:		nucleic			•
	(xi)	SEQ	UENCE D	ESCRIPTION	: SEQ ID	NO:120:		
AAUA	JACACA	A GGUT	UAUUUCU	AUGUCUUGC	a gugaagi	JG	ī	38
,								
(2)		RMATI	ON FOR	SEQ ID NO:	121:			
	(i)	SEQUI	ENCE CH	ARACTERIST:	ICS:			
		(C)	LENGTH TYPE: STRANDI	EDNESS:	32 base nucleic single	-		

	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:121:		
TTAT	TAATA	A GGTGCCTGCG GTGCCAGA	A CC			32
				·		
(2)	INFO	RMATION FOR SEQ ID NO:	122:			
	(i)	SEQUENCE CHARACTERIST	CICS:	•		
			32 base nucleic single linear			
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:122:		
GGTT	TCTGG	C ACCGCAGGCA CCTTATTA	AA T			32
(2)	INFO	RMATION FOR SEQ ID NO:	123:			
	(i)	SEQUENCE CHARACTERIST	'ICS:			
			_			
	(xi)	SEQUENCE DESCRIPTION	: SEQ ID	NO:123:		
UAUU	UAAUA	A GGUGCCUGCG GUGCCAGAA	A CC		•	32
	•	•				
(2)	INFO	RMATION FOR SEQ ID NO:	124:			
	(i)	SEQUENCE CHARACTERIST	ICS:	·	1	
		(A) LENGTH: (B) TYPE: (C) STRANDEDNESS:	32 base nucleic single	_	1	

	(xi)	SEQ	UENCE DESCRIPTIO	N: SEQ ID	NO:124:		
GGUUT	JCUGG	C ACC	GCAGGCA CCUUAUUA	AU AA			32
(2)	INFO	RMATI	ON FOR SEQ ID NO):125:			
	(i)	SEQU	ENCE CHARACTERIS	TICS:			¢•
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	23 base nucleic single linear			
	(xi)	SEQ	UENCE DESCRIPTIC	N: SEQ ID	NO:125:		
GACT	CTGTGT	r ATG	GAGACAC ATT			•	23
					•		
(2)	INFO	RMATI	ON FOR SEQ ID NO	:126:			
	(i) SEQUENCE CHARACTERISTICS:						
		(B) (C)	LENGTH: TYPE: STRANDEDNESS: TOPOLOGY:	23 base nucleic single linear	_		
	(xi)	SEQ	UENCE DESCRIPTIC	N: SEQ ID	NO:126:		
AATGT	rgtctc	C CAT	ACACAGA GTC				23
							-
(2)			ON FOR SEQ ID NO				
	(i)	SEQUI	ENCE CHARACTERIS	TICS:			
		(A) (B) (C)	STRANDEDNESS:	23 base nucleic single	_		

GACU	CUGUG	U AUG	GAGACAC AUU			23		
(2)								
	(i)	(A)	LENGTH:	23 base pairs nucleic acid single linear				
	(xi)	SEÇ	UENCE DESCRIPTIO	N: SEQ ID NO:128:	:			
אאדדרי	TTCTTCTT	יר כאדי	ואכאכאכא כווכ			2.2		

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:127: